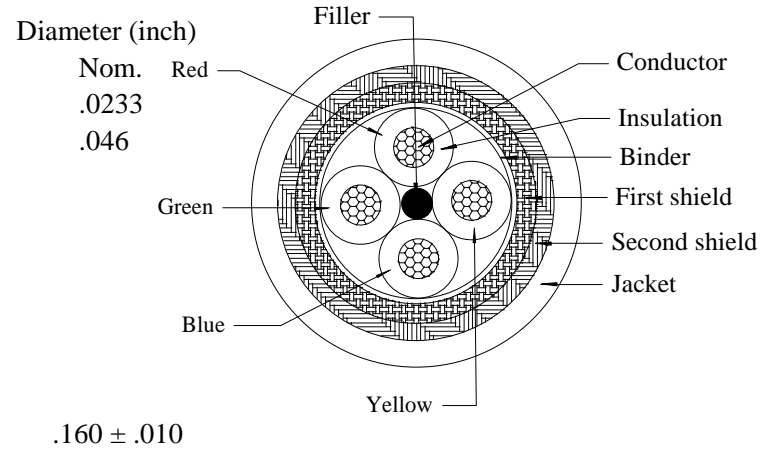


Scope: This specification defines the characteristics for a 100 ohm four conductor (quad) 24 AWG 100 Base-T Ethernet Cable.

Construction Details

Conductor	24 AWG 19 x 36 silver plated high strength copper alloy
Insulation	Extruded LTE with sintered PTFE tape jacket Component 1: Red and Blue Component 2: Yellow and Green
Cabling	Four insulated conductors cabled together with 1.25" nominal lay around a central PTFE filler.
Binder	PTFE Tape
First Shield	Flat tin plated copper braid having 92% minimum coverage
Second Shield	Round tin plated copper braid having 85% minimum coverage
Jacket	Extruded fluorinated ethylene propylene (FEP) Color: Transparent blue
Identification	Polyimide marker tape under jacket with part number and cage code



Non-controlled Copy

Properties

Differential Impedance	100 ohms ± 10%
Velocity of Propagation	79% (nom.)
Time Delay	1.29 Ns/ft. (nom.)
Crosstalk (NEXT) @ 10 MHz.	<-50 dB
@ 100 MHz	<-35.3 dB
Attenuation @ 10 MHz	2.4 dB/100 ft. (nom.)
100 MHz	8.0 dB/100 ft. (nom.)
Weight	24.0 lbs./1,000 ft. (nom.) 26.2 lbs./1,000 ft. (max)
Temperature Rating	150°C

Material to meet the requirements of FAR 25.853/Appendix F Part 1 (a) (3) for burn/smoke test and smoke + toxicity of Boeing and Airbus ABD0031

Product Specification			Revisions			
MX100Q-24			Rev.	Description	Date	Approved
Prepared by	Date	Page		Initial release	12/06/04	JAD
VT	12/06/04	1				

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Cage Code
12814